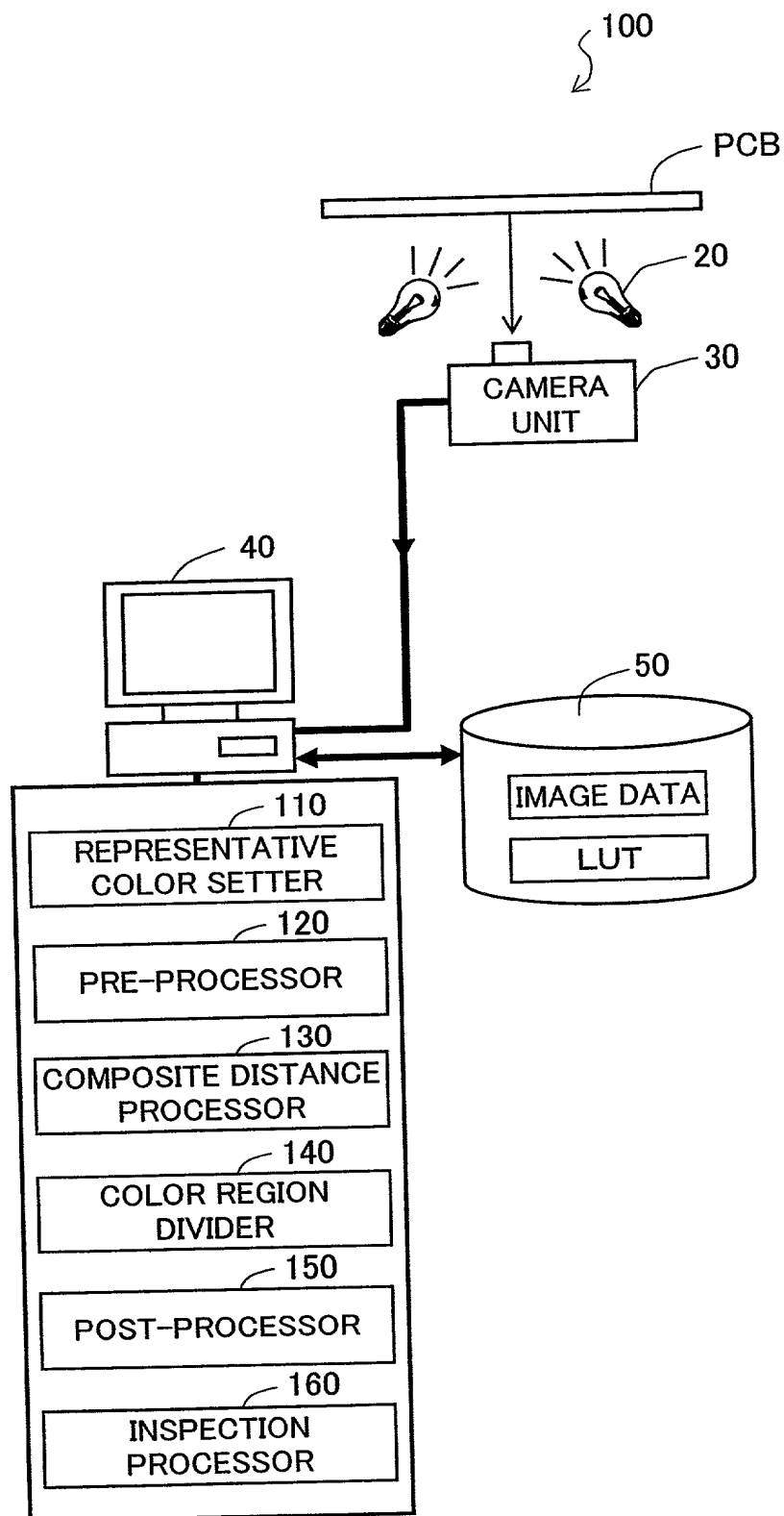
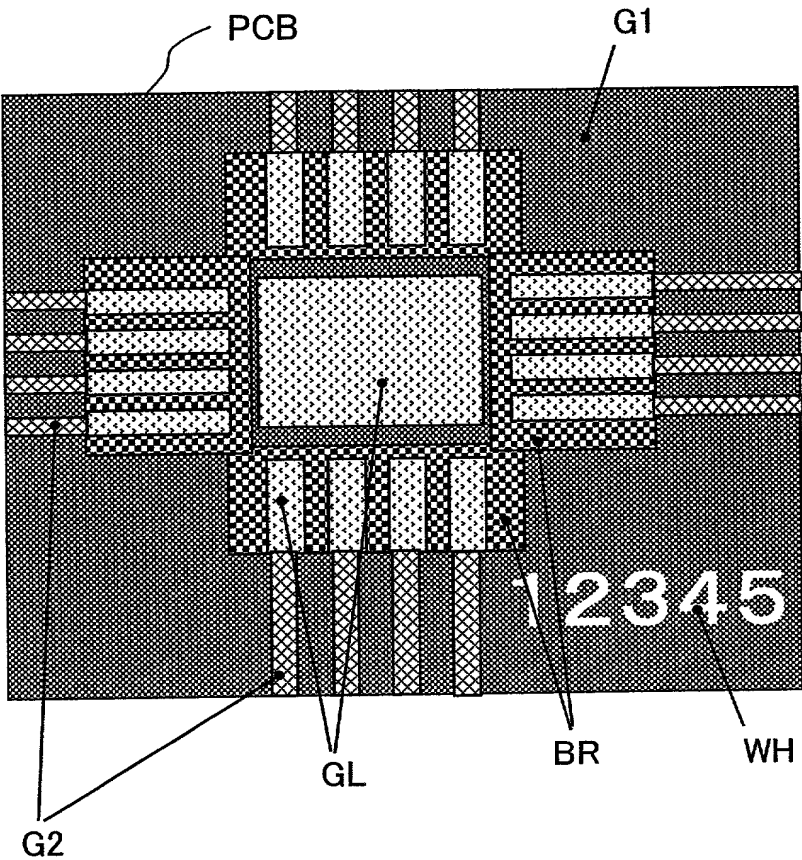


Fig. 1



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Fig.2



- GR {
- GREEN REGION G1: BOARD BASE REGION COATED WITH RESIST (RESIST REGION WITH LOWER BRIGHTNESS)
  - GREEN REGION G2: COPPER WIRINGS REGION COATED WITH RESIST (RESIST REGION WITH HIGHER BRIGHTNESS)
  - GOLD REGION GL: REGION PLATED WITH GOLD
- BROWN REGION BR: REGION OF BOARD BASE
- WHITE REGION WH: REGION PRINTED WITH WHITE CHARACTERS

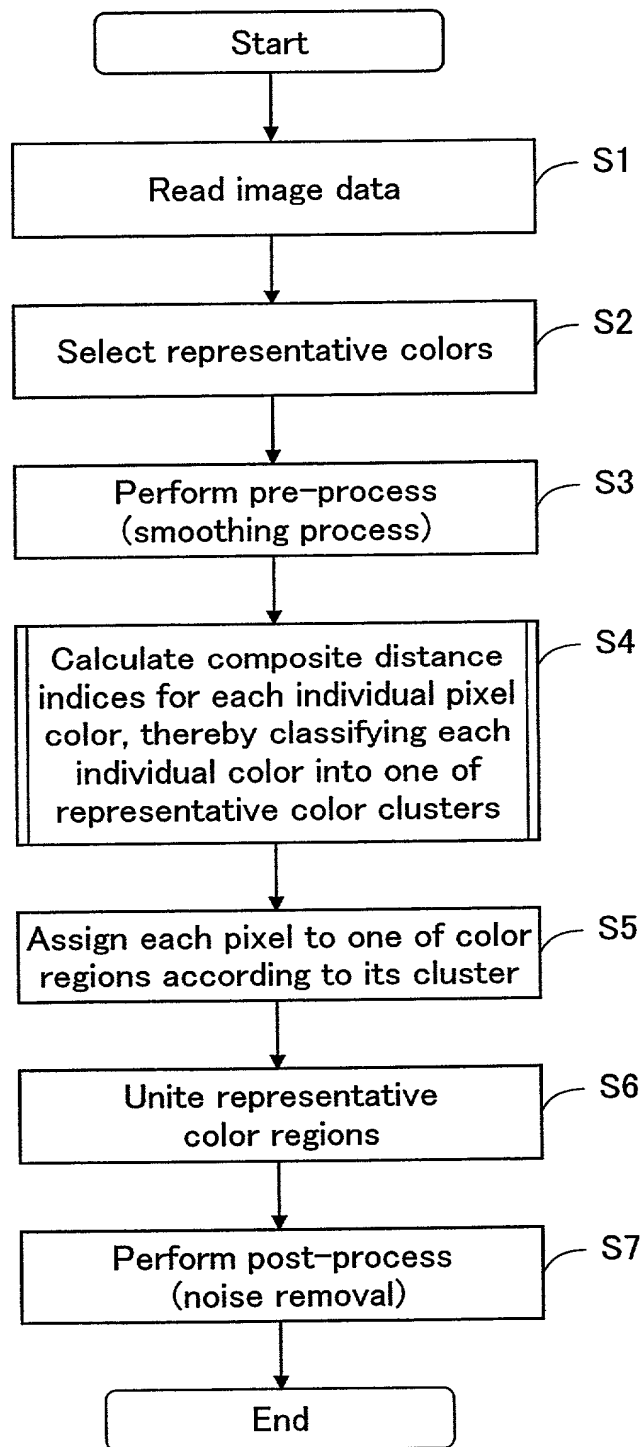
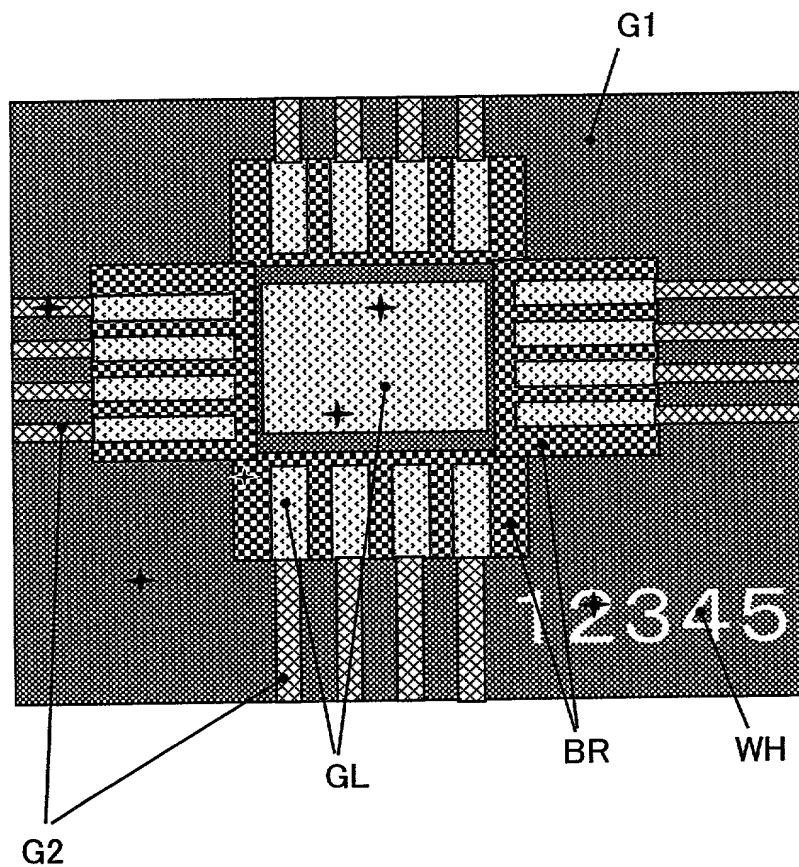
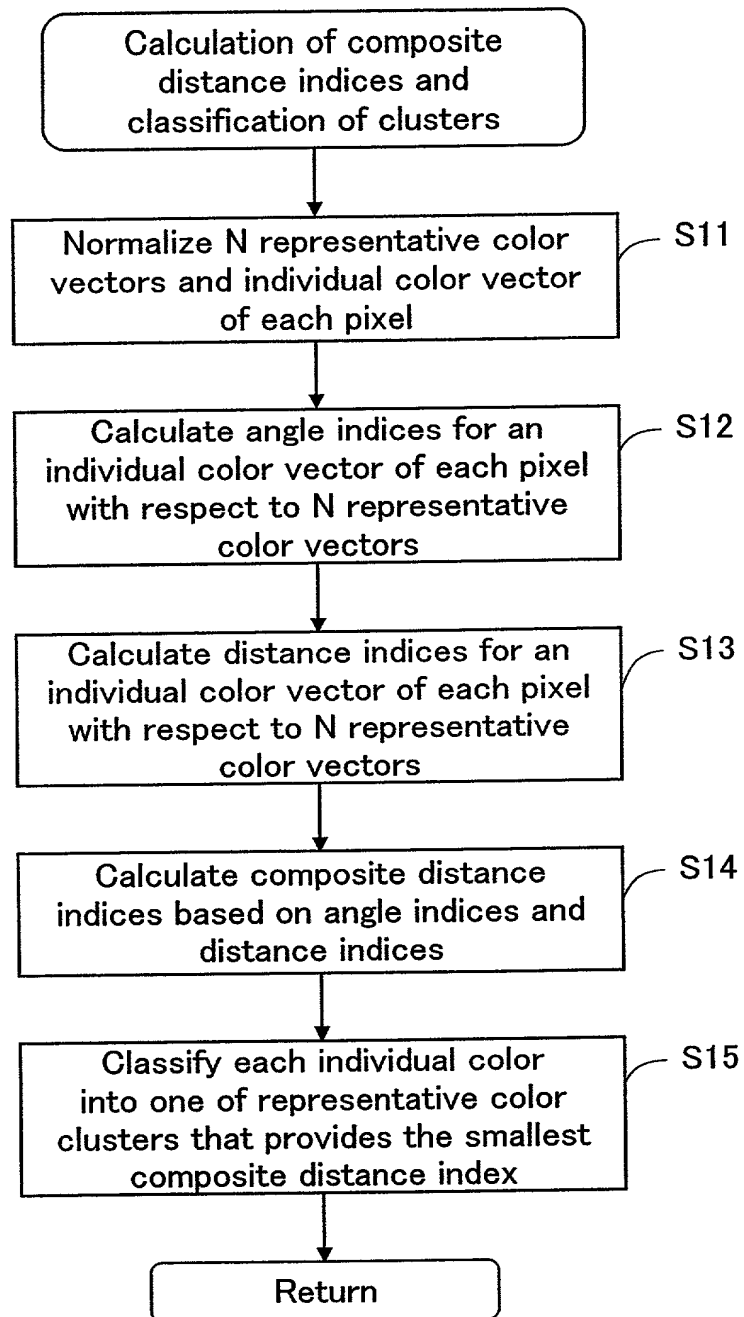
*Fig. 3*

Fig. 4



+ : SAMPLE POINT

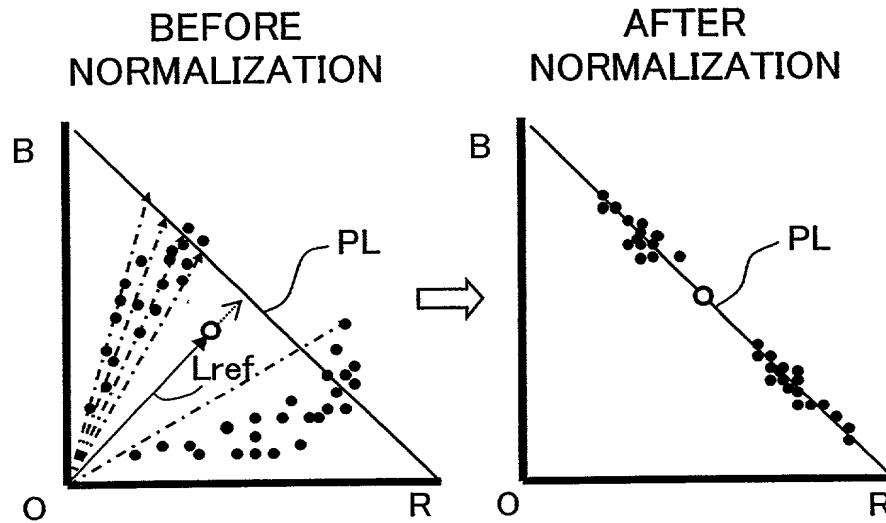
FIRST DIVIDED REGION DR1	{	GREEN REGION GR	{	G1
				G2
SECOND DIVIDED REGION DR2	{	GOLD REGION GL		
		BROWN REGION BR		
THIRD DIVIDED REGION DR3	{	WHITE REGION WH		

*Fig.5*

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Fig. 6A

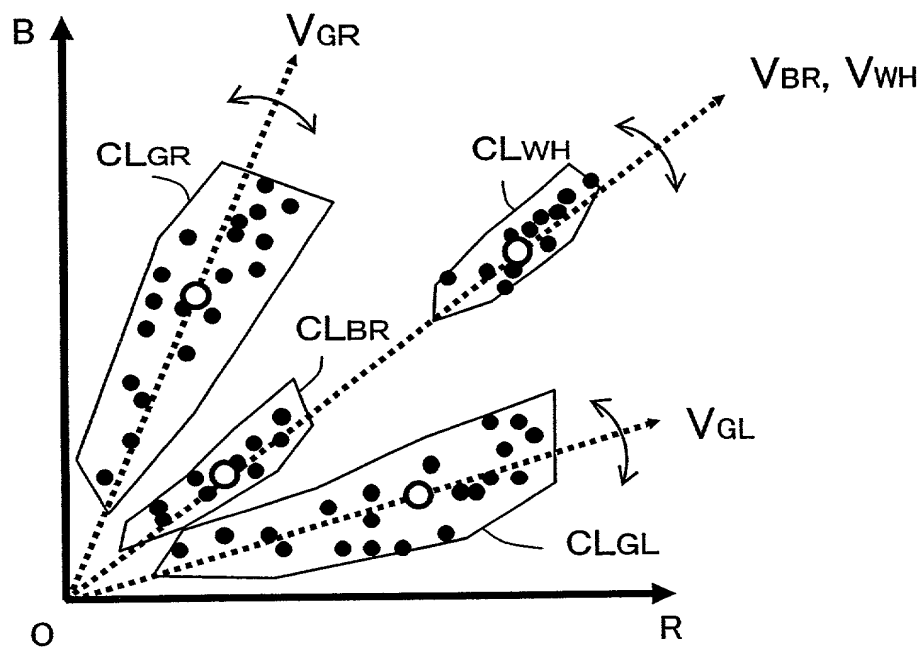
Fig. 6B



- : REPRESENTATIVE COLOR
- : INDIVIDUAL COLOR

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Fig. 7

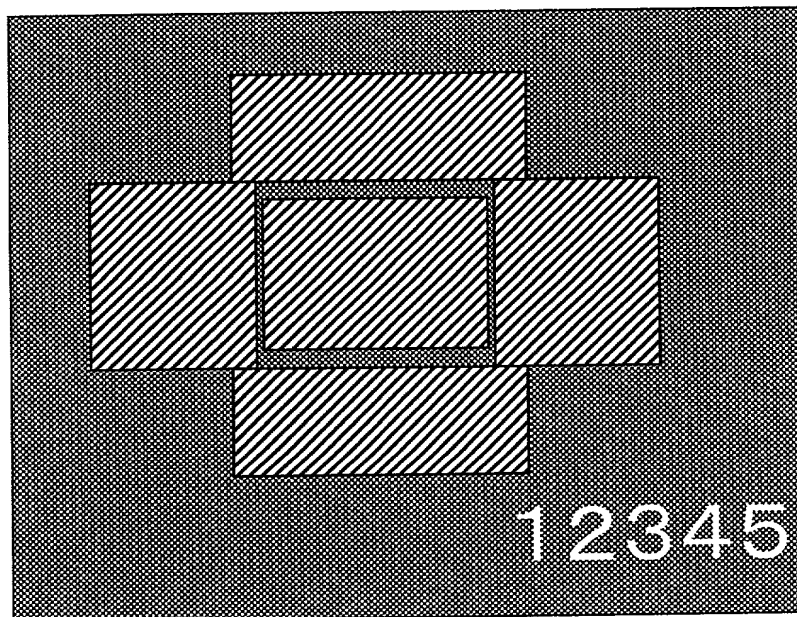





CLGR : GREEN CLUSTER     $V_{GR}$  : GREEN REPRESENTATIVE VECTOR  
 CLGL : GOLD CLUSTER     $V_{GL}$  : GOLD REPRESENTATIVE VECTOR  
 CLBR : BROWN CLUSTER     $V_{BR}$  : BROWN REPRESENTATIVE VECTOR  
 CLWH : WHITE CLUSTER     $V_{WH}$  : WHITE REPRESENTATIVE VECTOR

○ : REPRESENTATIVE COLOR

● : INDIVIDUAL COLOR

Fig. 8



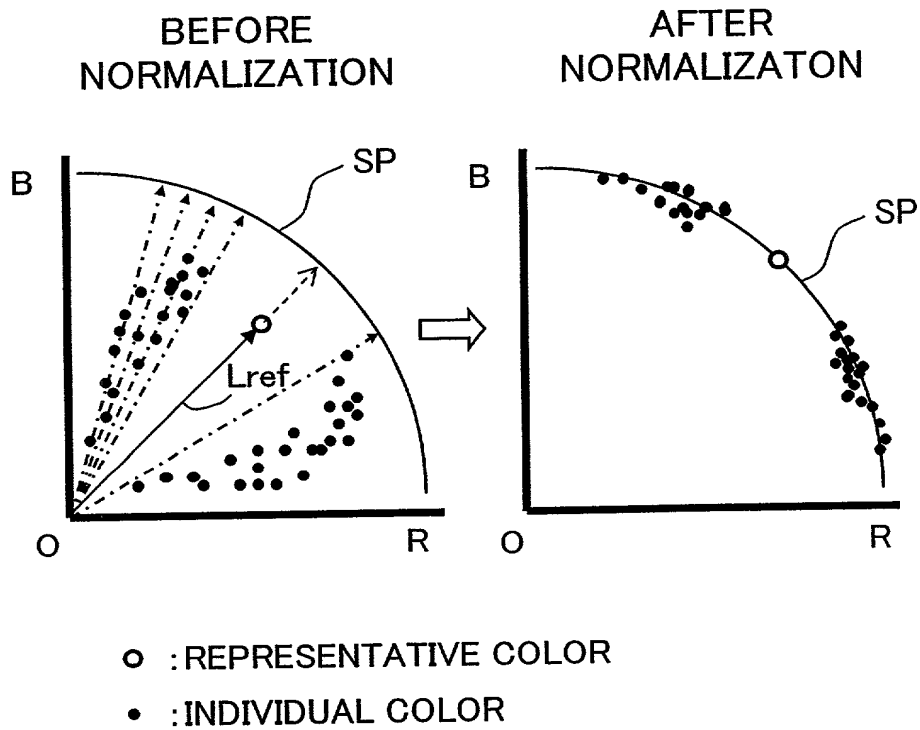
-  : FIRST DIVIDED REGION DR1 ( $G1+G2$ )
-  : SECOND DIVIDED REGION DR2 ( $GL+BR$ )
-  : THIRD DIVIDED REGION DR3 (WH)

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Fig. 9A

Fig. 9B



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Fig. 10A

APPROPRIATE CLUSTERING

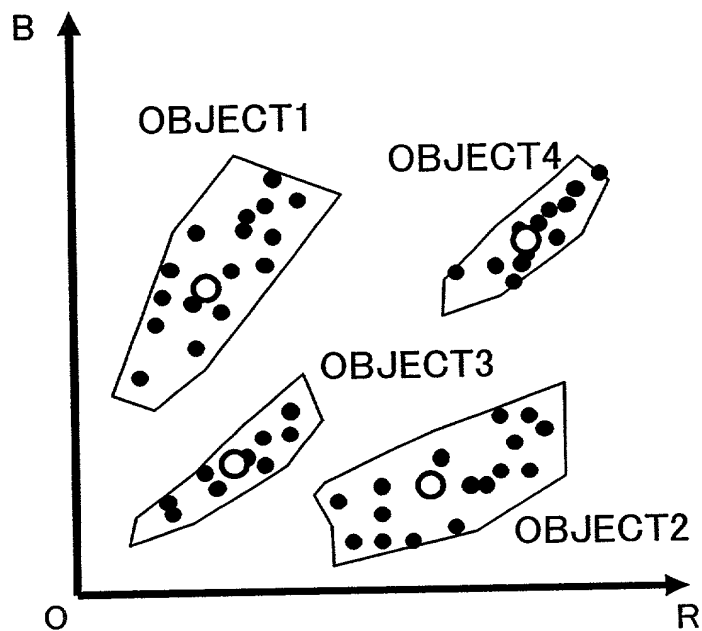


Fig. 10B

INAPPROPRIATE CLUSTERING

